Bachelor of Science (BS)  
Degree Code 259*              GEOLOGY
Concentration Code 259F         SECONDARY EDUCATION Licensure

I. GENERAL EDUCATION CURRICULUM

Geology 1101 and 1103 fulfill Science Inquiry in general education. MAT 1110 fulfills the Quantitative Literacy requirement.

II. PROFESSIONAL EDUCATION REQUIREMENTS

A minimum grade of C is required in each professional education course. CI 2300 & FDN 2400 are required prior to admission to Teacher Educ.

CI 2300  ____ (2) Teaching and Learning in the Digital Age  (Entry course to teacher education)
FDN 2400  ____ (2) Critical Perspectives on Teaching and Learning (Pre or Co: CI 2300)  (Entry course to teacher education)
PSY 3010  ____ (3) Psychology Applied to Teaching (Pre or Co: CI 2300)

PROFICIENCIES:

SPE 3300*  ____ (3) Creating Inclusive Learning Communities  (Pre: CI 2300, FDN 2400, PSY 3010)
Reading ______

CI 3400*  ____ (2) Policies and Practice in Educational Assessment (Pre: CI 2300, FDN 2400, PSY 3010)
English ______

CI 4900  ____ (12) Student Teaching [CAP]  (All courses in professional core must be completed with grades of C (2.0) or higher prior to student teaching, along with other courses (including methods and reading) identified within the major.

*Admission to Teacher Education required.

NOTE: To be admitted to the Teacher Education Program students must take and satisfy testing requirements for Reading, Writing and Math areas of the PRAXIS (PPST or CBT). The PRAXIS II Area Exams are required for student teaching.

III. MAJOR REQUIREMENTS (not including 12 hours counted in Area I, above)

2.0 major GPA is required for graduation. Major GPA calculation will include all courses taken in the major department, plus any other courses under III.

Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian. Since many upper level Geology courses require GLY 1101 as a prerequisite, it is highly recommended that students complete this course during their freshman year.

A. Geology Courses (28 hours)

GLY 1101  ____ (4) Introduction to Physical Geology
or GLY 1510  ____ (4) Geological Science Honors-Physical
GLY 1103  ____ (4) Environmental Change, Hazards, & Resources
GLY 1105  ____ (4) Oceanography
GLY 2250  ____ (4) Evolution of the Earth (Pre: GLY 1101, 1102, 1103, 1104, or 1105)
GLY 3220  ____ (3) Fundamentals of Mineralogy (Pre: GLY 2250)
GLY 3333  ____ (3) Geomorphology (Pre: 6 s.h. GLY)
GLY 3520  ____ (1) Instructional Asst for GLY 1101 (Pre: Jr/Sr standing)
GLY 3521  ____ (1) Secondary Science Field Experience (Pre: Jr/Sr standing)

B. At least 12 semester hours selected from the following:

CHE 1101  ____ (3) Introductory Chemistry I (Co: CHE 1110)
CHE 1110  ____ (1) Introductory Chemistry I Lab (Co: CHE 1101)
CHE 1102  ____ (3) Introductory Chemistry II (Pre: CHE 1101; Co: 1120)
CHE 1120  ____ (1) Introductory Chemistry II Lab (Co: CHE 1102)
PHY 1103  ____ (4) General Physics I (Co: MAT 1020 or 1025)
PHY 1104  ____ (4) General Physics II (Pre: PHY 1103)

C. Also required (24 hours):

G S 4403  ____ (3) Teaching Science in the Middle and High Schools [WID] (minimum “C” grade required) (Pre: RC 2001)
R E 4630  ____ (2) Reading in the Content Areas (minimum “C” grade required)
AST 1001  ____ (4) Introductory Astronomy I – The Solar System
AST 1002  ____ (4) Introductory Astronomy II – Stars and Galaxies (Pre: AST 1001)
BIO 1801  ____ (4) Biological Concepts I (Co: CHE 1101)
GHY 3100  ____ (3) Weather and Climate (Pre: GHY 1010)
MAT 1110  ____ (4) Calculus with Analytic Geometry I (Pre: MAT 1025 w/min grade C-

During the senior year, the B.S. Geology Teaching Licensure degree student must take the Praxis II subject area exam: Earth/Space Science (#0570) portion. The score should be reported to Appalachian State University.

IV. MINOR (optional)

V. ELECTIVES (taken to total 122 hours for the degree)